

DERWENT-ACC-NO: 1997-178754

DERWENT-WEEK: 200320

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TITLE: Synthetic modification of spinosyn derivs. - having insecticidal activity

INVENTOR: ANZEVENO, P B; CREAMER, L C ; CROUSE, G D ; DEAMICIS, C V ; GIFFORD, J M ; GREEN, F R ; HATTON, C J ; HEGDE, V B ; KIRST, H A ; MARTYNOW, J G ; MCLAREN, K L ; RICKS, M J ; SCHOONOVER, J R ; SPARKS, T C ; THOREEN, B R ; WORDEN, T V ; SHOONOVER, J R ; SPARK, T C

PATENT-ASSIGNEE: DOW AGROSCIENCES LLC[DOWC] , DOWELANCO[DOWC]

PRIORITY-DATA: 1995US-009006P (December 21, 1995) , 1995US-000201P (June 14, 1995) , 1995US-001435P (July 14, 1995) , 1996US-0662549 (June 13, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9700265 A1	January 3, 1997	E	279	C07H 017/08
AU 9661771 A	January 15, 1997	N/A	000	N/A
EP 837870 A1	April 29, 1998	E	000	N/A
BR 9608380 A	January 5, 1999	N/A	000	N/A
JP 11506117 W	June 2, 1999	N/A	355	C07H 017/08
AU 711185 B	October 7, 1999	N/A	000	N/A
MX 9710092 A1	March 1, 1998	N/A	000	C07H 017/08
KR 99022963 A	March 25, 1999	N/A	000	C07H 017/08
EP 837870 B1	July 24, 2002	E	000	C07H 017/08
DE 69622564 E	August 29, 2002	N/A	000	C07H 017/08
CN 1191541 A	August 26, 1998	N/A	000	C07H 017/08
ES 2179202 T3	January 16, 2003	N/A	000	C07H 017/08
TW 487559 A	May 21, 2002	N/A	000	A01N 043/16

DESIGNATED-STATES: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK
 EE ES FI GB GE
 HU IL IS JP KE KG KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
 PL PT RO RU
 SD SE SG SI SK TJ TM TR TT UA UG US UZ VN AT BE CH DE DK ES FI FR GB
 GR IE IT
 LU MC NL PT SE DE ES FR GB IT DE ES FR GB IT

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
WO 9700265A1	N/A	1996WO-US10327	June 13, 1996
AU 9661771A	N/A	1996AU-0061771	June 13, 1996
AU 9661771A	Based on	WO 9700265	N/A
EP 837870A1	N/A	1996EP-0919423	June 13, 1996
EP 837870A1	N/A	1996WO-US10327	June 13, 1996
EP 837870A1	Based on	WO 9700265	N/A
BR 9608380A	N/A	1996BR-0008380	June 13, 1996
BR 9608380A	N/A	1996WO-US10327	June 13, 1996
BR 9608380A	Based on	WO 9700265	N/A
JP 11506117W	N/A	1996WO-US10327	June 13, 1996
JP 11506117W	N/A	1997JP-0503351	June 13, 1996
JP 11506117W	Based on	WO 9700265	N/A
AU 711185B	N/A	1996AU-0061771	June 13, 1996
AU 711185B	Previous Publ.	AU 9661771	N/A
AU 711185B	Based on	WO 9700265	N/A
MX 9710092A1	N/A	1997MX-0010092	December 11, 1997
KR 99022963A	N/A	1996WO-US10327	June 13, 1996
KR 99022963A	N/A	1997KR-0709433	December 13, 1997
KR 99022963A	Based on	WO 9700265	N/A
EP 837870B1	N/A	1996EP-0919423	June 13, 1996
EP 837870B1	N/A	1996WO-US10327	June 13, 1996
EP 837870B1	Based on	WO 9700265	N/A
DE 69622564E	N/A	1996DE-0622564	June 13, 1996
DE 69622564E	N/A	1996EP-0919423	June 13, 1996
DE 69622564E	N/A	1996WO-US10327	June 13, 1996
DE 69622564E	Based on	EP 837870	N/A
DE 69622564E	Based on	WO 9700265	N/A
CN 1191541A	N/A	1996CN-0195634	June 13, 1996
ES 2179202T3	N/A	1996EP-0919423	June 13, 1996
ES 2179202T3	Based on	EP 837870	N/A
TW 487559A	N/A	1994TW-0102553	December 13, 1996

INT-CL.(IPC): A01N043/16, A01N043/22, C07D313/00, C07D407/12,
C07H015/24, C07H017/08, C12P019/62, C12P019/62, C12R001:645

RELATED-ACC-NO: 2000-096151

ABSTRACTED-PUB-NO: EP 837870B

BASIC-ABSTRACT:

Spinosyn derivs of formula (I) and their salts, are new and modified at the rhamnose sugar or forosamine sugar. A, B = a single or double bond, or an epoxide gp.; R = NR₇R₈ or OR_{8'}; R₁, R₆ = H or Me; R₂-R₄, R₇, R₈, R_{8'} = 1-4C alkyl, haloalkyl, or alkanoyl, or a protecting gp.; R₅ = H, 1-4C alkyl or alkylamino, or N(R₁₀)OR₁₁; R₉ = Me or Et; and R₁₀, R₁₁ = H, 1-4C alkyl, or 1-5C alkanoyl.

USE - The spinosyns have been found useful in control of arachnids, nematodes, insects, and mites, but partic. Lepidoptera and Diptera spp. The pests can either be those of plants, or ecto- or endo- parasites of animals (the latter being those passed out in the faeces, control therefore protecting other animals), including humans and domesticated, both farm animals and pets.

ADVANTAGE - Spinosyn derivs. are environmentally friendly.

ABSTRACTED-PUB-NO: WO 9700265A

EQUIVALENT-ABSTRACTS:

Spinosyn derivs of formula (I) and their salts, are new and modified at the rhamnose sugar or forosamine sugar. A, B = a single or double bond, or an epoxide gp.; R = NR₇R₈ or OR_{8'}; R₁, R₆ = H or Me; R₂-R₄, R₇, R₈, R_{8'} = 1-4C alkyl, haloalkyl, or alkanoyl, or a protecting gp.; R₅ = H, 1-4C alkyl or alkylamino, or N(R₁₀)OR₁₁; R₉ = Me or Et; and R₁₀, R₁₁ = H, 1-4C alkyl, or 1-5C alkanoyl.

USE - The spinosyns have been found useful in control of arachnids, nematodes, insects, and mites, but partic. Lepidoptera and Diptera spp. The pests can either be those of plants, or ecto- or endo- parasites of animals (the latter being those passed out in the faeces, control therefore protecting other animals), including humans and domesticated, both farm animals and pets.

ADVANTAGE - Spinosyn derivs. are environmentally friendly.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SYNTHETIC MODIFIED DERIVATIVE INSECT ACTIVE

DERWENT-CLASS: B02 C01 C02

CPI-CODES: B06-A03; B14-B03A; B14-B04; B06-A03; C06-A03; B14-B03A;
C14-B03A;
B14-B04; C14-B04; C06-A03; C14-B03A; C14-B04;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

D015 D021 D022 D029 D030 D220 D240 F012 F013 F014
F015 F016 F019 F123 F199 H102 H103 H121 H122 H161
H5 H522 H523 H600 H608 H609 H681 H682 H683 H689
H8 J011 J012 J013 J014 J221 J222 J271 J321 J322
J361 J5 J522 K0 K820 K830 K850 L532 L8 L817
L822 L831 L9 L942 M1 M126 M129 M141 M149 M210
M211 M212 M213 M214 M215 M216 M220 M221 M222 M223
M224 M225 M226 M231 M232 M233 M240 M262 M272 M273
M281 M282 M283 M311 M312 M313 M314 M315 M320 M321
M322 M323 M331 M332 M333 M334 M340 M342 M343 M344
M362 M391 M392 M393 M412 M511 M522 M530 M540 M630
M640 M650 M710 M903 M904 P341

Ring Index

69702

Markush Compounds

199716-47901-N

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-057912